

Program Name: Master of Science in Artificial Intelligence & Data Science
Semester: I

Program Code:ET214
Effect from Academic Year: 2026-27

Course code	Course Name	Type of Course	Credit	Hours per Week				Theory (Marks)				Practical (Marks)				Total (Marks)
				L	T	P	Total	SEE		CCA		SEE		CCA		
								Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
1ET2140101	AI Fundamentals	MJ	4	3	1	-	4	20	50	20	50	-	-	-	-	100
1ET2140102	Statistical Methods	MJ	4	3	-	2	5	20	50	20	50	10	25	10	25	150
1ET2140103	Machine Learning	MJ	4	3	-	2	5	20	50	20	50	10	25	10	25	150
1ET2140104	Data Visualization & Modelling	MJ	4	3	-	2	5	20	50	20	50	10	25	10	25	150
1ET2140105	Responsible AI	AEC	2	2	-	-	2	20	50	20	50	-	-	-	-	100
1ET2140106	Entrepreneurship Development	SEC	2	2	-	-	2	20	50	20	50	-	-	-	-	100
	Total		20	16	1	6	23									750

L=Lecture, T=Tutorial, P=Practical SEE= Semester End Evaluation CCA= Continuous & Comprehensive Assessment

Program Name: Master of Science in Artificial Intelligence & Data Science

Program Code: ET214

Semester: II

Effect from Academic Year: 2026-27

Course code	Course Name	Type of Course	Credit	Hours per Week				Theory (Marks)				Practical (Marks)				Total (Marks)
				L	T	P	Total	SEE		CCA		SEE		CCA		
								Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
1ET2140201	Natural Language Processing	MJ	4	3	-	2	5	20	50	20	50	10	25	10	25	150
1ET2140202	Computer Vision	MJ	4	3	-	2	5	20	50	20	50	10	25	10	25	150
1ET2140203	Time Series Analysis and Forecasting	MJ	4	3	-	2	5	20	50	20	50	10	25	10	25	150
1ET2140204	Deep Learning	MJ	4	3	-	2	5	20	50	20	50	10	25	10	25	150
1ET2140205	Big Data Analytics	MJ	4	3	-	2	5	20	50	20	50	10	25	10	25	150
	Total		20	15	0	10	25									750

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Program Name: Master of Science in Artificial Intelligence & Data Science

Program Code: ET214

Semester: III

Effect from Academic Year: 2026-27

Course code	Course Name	Type of Course	Credit	Hours per Week				Theory (Marks)				Practical (Marks)				Total (Marks)
				L	T	P	Total	SEE		CCA		SEE		CCA		
								Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
1ET2140301	Generative AI	MJ	3	2	-	2	4	20	50	20	50	10	25	10	25	150
1ET2140302	Agentic AI Systems	MJ	3	2	-	2	4	20	50	20	50	10	25	10	25	150
	Elective I	MN	4	3	-	2	5	20	50	20	50	10	25	10	25	150
	Elective II	MN	4	3	-	2	5	20	50	20	50	10	25	10	25	150
	Elective III	MN	4	3	-	2	5	20	50	20	50	10	25	10	25	150
1ET2140312	Major Project- I	RP	4	-	-	8	8	-	-	-	-	20	50	20	50	100
	Total		22	13	00	18	31									850

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Elective I		Elective II		Elective III	
Course Code	Course Name	Course Code	Course Name	Course Code	Course Name
1ET2140303	Transforming Healthcare Analytics	1ET2140306	Biomedical Image Analysis	1ET2140309	Artificial Intelligence in Drug Discovery
1ET2140304	Precision Agriculture Analytics	1ET2140307	Computer Vision & Remote Sensing for Agriculture	1ET2140310	IoT and Edge AI for Smart Farming
1ET2140305	AI for Smart Infrastructure & Urban Analytics	1ET2140308	Structural Health Monitoring using AI	1ET2140311	AI-based Disaster Prediction and Risk Analytics

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Semester: IV

Effect from Academic Year: 2026-27

Course code	Course Name	Type of Course,	Credit	Hours per Week				Theory (Marks)				Practical (Marks)				Total (Marks)
				L	T	P	Total	SEE		CCA		SEE		CCA		
								Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
	Elective IV	MN	4	3	-	2	5	20	50	20	50	10	25	10	25	150
1ET2140404	Major Project- II	RP	16	-	-	32	32	-	-	-	-	100	250	100	250	500
	Total		20	3	-	34	37									650

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Elective IV	
Course Code	Course Name
1ET2140401	Explainable Artificial Intelligence (XAI) in healthcare
1ET2140402	Autonomous Agricultural Systems and Robotics
1ET2140403	AI for Smart Transportation and Traffic Systems

Electives	Track 1: Healthcare	Track 2: Agriculture	Track 3: Infrastructure
Elective I	Transforming Healthcare Analytics	Precision Agriculture Analytics	AI for Smart Infrastructure & Urban Analytics
Elective II	Biomedical Image Analysis	Computer Vision & Remote Sensing for Agriculture	Structural Health Monitoring using AI
Elective III	Artificial Intelligence in Drug Discovery	IoT and Edge AI for Smart Farming	AI-based Disaster Prediction and Risk Analytics
Elective IV	Explainable Artificial Intelligence (XAI) in healthcare	Autonomous Agricultural Systems and Robotics	AI for Smart Transportation and Traffic Systems



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